

# SEBORILYS

INTEGRAL SEBUM REGULATOR



BALANCE

SEBORILYS®

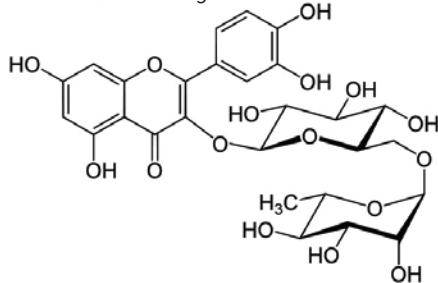
PHYTOBIOACTIVE

## > ACTIONS

- Limits sebum secretion
- Reduces acne
- Limits skin irritation
- Reduces oily scalp dandruff

## COMPOSITION

**Flavonoids** (expressed in rutins) > 150 mg/l



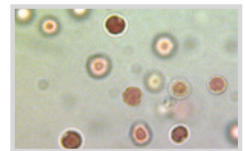
## ORIGIN

Rosebay willowherb  
*Epilobium angustifolium*  
(Flowering aerial parts)

Terminalia  
*Terminalia chebula* (Bark)

Nasturtium  
*Tropaeolum majus*  
(Flowering aerial parts)

Microalga  
*Porphyridium cruentum*



## > MECHANISM OF ACTION

SEBORILYS combats the 4 phenomena responsible for acne formation: hyperseborrhoea, hyperkeratinization, microbial growth and inflammation.

This active ingredient combines the anti-androgenic activity of willowherb tannins which slow down the sebum production, the astringent activity of terminalia, the antimicrobial effect of nasturtium and the anti-inflammatory effect of zinc from microalga.

## > COSMETIC BENEFITS

- Sebum secretion is slowed down, skin is less oily and shiny; skin blemishes and irritations are reduced, acne is visibly reduced.
- Scalp dandruff disappears.

## > COSMETIC USES

▶ **Oily or acne-prone skin care products**

▶ **Greasy hair care products**

## > SCIENTIFIC PROCESS

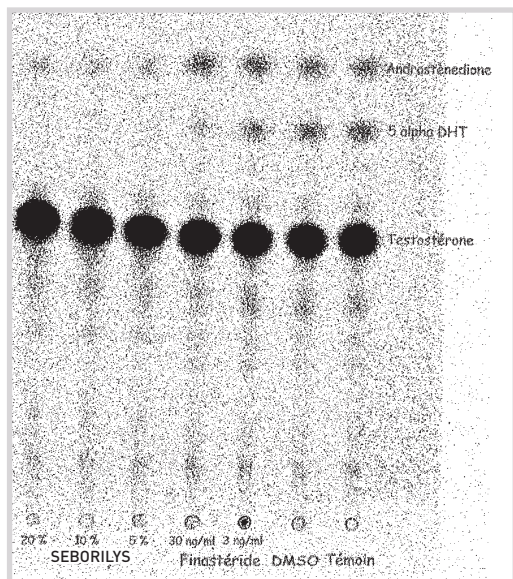
Hormonal factors play a key role in sebaceous secretions. Androgens stimulate sebum production, whereas oestrogens decrease it.

As soon as it enters the cell, testosterone is converted to dihydrotestosterone by 5- $\alpha$ -reductase, which is in the sebaceous gland. It is recognised that inhibition of this enzyme leads to reduced sebum secretion. The astringent action refines skin grain and limits sebaceous secretions.

## &gt; PROVEN EFFICACY

IN VITRO  
TESTSINHIBITION OF 5- $\alpha$ -REDUCTASE ACTIVITY

- SEBORILYS (at a concentration of 5%) significantly inhibits dihydrotestosterone (DHT) and androstenedione production



## ANTIMICROBIAL ACTIVITY

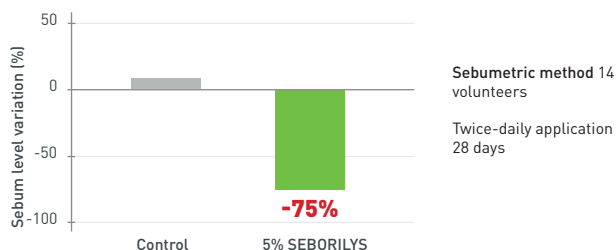
- SEBORILYS inhibits the proliferation of *Propionibacterium acnes*, *Corynebacterium xerosis* and *Pytirosporum ovale*, characteristic of dandruff problems. This antimicrobial effect is due to the sulphur compounds contained in SEBORILYS, in particular glucotropeoline, a glucosinolate derived from nasturtium.

## &gt; PROVEN EFFICACY

IN VIVO  
TESTS

## SEBUM REGULATING ACTIVITY

- Sebum secretion is reduced by **75%** (at a concentration of 5%) and for 28 days



## FORMULATION

**Concentration for use:** 1 to 5%

**Caution for use:**

Add to emulsions, at the end of the preparation process, either cold or at 35-40 °C, during cooling.

## TECHNICAL DATA

**Characteristics**

Organoleptic	Appearance: viscous gel Colour: brown to dark brown
Solubility	Water: partially soluble

**Storage**

Keep in a dark place, in the original packaging, at a recommended temperature. Use rapidly once opened, or transfer to sterile packaging.

**Tolerance tests**

- Eye irritation: mildly irritating
- Skin irritation: non-irritant

INCI name: Epilobium angustifolium Flower/Leaf/Stem Extract, Tropaeolum majus Flower/Leaf/Stem Extract, Terminalia chebula Extract, Porphyridium cruentum Extract

Preservative: Several versions available, see specifications

Authorized:

**Warning:** The information in this document are the result of studies and interpretations based in part on published or generally accepted scientific data. They are provided for information purposes in terms of possible end applications and cannot be considered as instructions for use. We accept no responsibility concerning marketed formulas containing one or more of our products. Compounders must take all necessary precautions and ensure that all legal and administrative formalities have been fulfilled.